

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application. Please cancel claims 1-52 and add new claims 53-106 as shown below in the listing of the claims.

**LISTING OF CLAIMS:**

Claims:

1-52 (canceled)

53. (New) A process for hydrogenating, to the corresponding cyclohexyl derivative, one or more benzenopolycarboxylic acids or one or more derivatives thereof, or a mixture of one or more benzenopolycarboxylic acids or one or more derivatives thereof by bringing the benzenopolycarboxylic acid or the derivative thereof or the mixture into contact with a hydrogen-containing gas in the presence of a catalyst, said catalyst comprising one or more catalytically active metals applied to a catalyst support comprising one or more ordered mesoporous materials, at least one of which materials is ordered mesoporous silica.
54. (New) The process as claimed in claim 53 wherein the catalyst support further comprises one or more macroporous materials combined in admixture with the one or more ordered mesoporous materials.
55. (New) The process as claimed in claim 54 wherein the macroporous material is amorphous.
56. (New) The process as claimed in Claim 54 wherein the macroporous material is alumina.
57. (New) The process as claimed in claim 56 wherein the catalyst support further comprises one or more mixed porosity materials combined in admixture with the one or more ordered mesoporous materials.

58. (New) The process as claimed in claim 57 wherein the mixed porosity material is amorphous.
59. (New) The process as claimed in claim 57 wherein the mixed porosity material is alumina.
60. (New) The process as claimed in claim 57 wherein the mixed porosity material contains mesopores and macropores.
61. (New) The process as claimed in claim 53 wherein the ordered mesoporous silica is a metallosilicate.
62. (New) The process as claimed in claim 53 wherein at least one of the ordered mesoporous materials is a material that is synthesized using amphiphilic compounds as directing agents.
63. (New) The process as claimed in claim 62 wherein one or more of the ordered mesoporous materials is selected from the group consisting of materials designated as SBA (Santa Barbara) such as SBA-2, SBA-15 and SBA-16, materials designated as FSM (Folding Sheet Mechanism) such as FSM-16 and KSW-2, materials designated as MSU (Michigan State) such as MSU-S and MSU-X, materials designated as TMS or Transition Metal Sieves, materials designated as FMMS or Functionalised Monolayers on Mesoporous Supports or materials designated as APM or Acid Prepared Mesostructure or ordered mesoporous materials designated as M41S.
64. (New) The process as claimed in claim 63 wherein the one or more ordered mesoporous materials designated as M41S are selected from the group consisting of MCM-41, MCM-48 and MCM-50.
65. (New) The process as claimed in claim 64 wherein the ordered mesoporous material is MCM-41.

66. (New) The process as claimed in claim 53 wherein the one or more catalytically active metals are one or more metals selected from transition group VIII of the Periodic Table.
67. (New) The process as claimed in claim 53 wherein the one or more catalytically active metals are selected from the group consisting of platinum, rhodium, palladium, cobalt, nickel or ruthenium or a mixture of two or more thereof.
68. (New) The process as claimed in claim 53 wherein the one or more catalytically active metals are selected from the group consisting of platinum, palladium, or ruthenium or a mixture of two or more thereof.
69. (New) The process as claimed in claim 53 wherein the one or more catalytically active metals are a mixture of platinum and palladium.
70. (New) The process as claimed in claim 53 wherein the catalytically active metal is ruthenium.
71. (New) The process as claimed in claim 53 wherein the one or more catalytically active metals comprise one or more metals of transition group I or VII of the Periodic Table.
72. (New) The process as claimed in claim 53 wherein the one or more catalytically active metals are present in an amount of from 0.01 to 30% by weight, based on the total weight of the catalyst.
73. (New) The process as claimed in claim 54 wherein the one or more macroporous materials have a BET surface area of at most 30 m<sup>2</sup>/g.
74. (New) The process as claimed in claim 53 wherein the one or more mesoporous materials have a BET surface area of greater than 600 m<sup>2</sup>/g.

75. (New) The process as claimed in claim 53 wherein the one or more mesoporous materials have a BET surface area of greater than 1000 m<sup>2</sup>/g.
76. (New) The process as claimed in any claim 53 wherein the metal surface area on the catalyst is from 0.01 to 10 m<sup>2</sup>/g of the catalyst.
77. (New) The process as claimed in any claim 53 wherein the metal surface area on the catalyst is from 0.05 to 5 m<sup>2</sup>/g of the catalyst.
78. (New) The process as claimed in claim 53 wherein the metal surface area on the catalyst is from 0.05 to 3 m<sup>2</sup>/g of the catalyst.
79. (New) The process as claimed in claim 53 wherein the hydrogenation catalyst has a metal dispersion value relating to the strongly chemisorbed component in excess of 20%.
80. (New) The process as claimed in claim 53 wherein the hydrogenation catalyst has a metal dispersion value relating to the strongly chemisorbed component in excess of 25%.
81. (New) The process as claimed in claim 53 wherein the hydrogenation catalyst has a metal dispersion value relating to the strongly chemisorbed component in excess of 30%.
82. (New) The process as claimed in any claim 53 wherein the hydrogenation catalyst has a total metal dispersion value in excess of 45%.
83. (New) The process as claimed in claim 53 wherein the hydrogenation catalyst has a total metal dispersion value in excess of 50%.

84. (New) The process as claimed in claim 53 wherein the hydrogenation catalyst has a total metal dispersion value in excess of 55%.
85. (New) The process as claimed in any claim 53 wherein the one or more benzenopolycarboxylic acids is selected from the group consisting of phthalic acid, terephthalic acid, isophthalic acid, trimellitic acid, trimesic acid, hemimellitic acid and pyromellitic acid and mixtures of two or more thereof.
86. (New) The process as claimed in claim 53 wherein the one or more benzenopolycarboxylic acid derivatives are selected from the group consisting of monoalkyl and dialkyl esters of phthalic acid, terephthalic acid and isophthalic acid, monoalkyl, dialkyl and trialkyl esters of trimellitic acid, trimesic acid and hemimellitic acid, monoalkyl, dialkyl, trialkyl and tetraalkyl esters of pyromellitic acid, anhydrides of phthalic acid, trimellitic acid and hemimellitic acid, pyromellitic dianhydride and mixtures of two or more thereof.
87. (New) The process as claimed in claim 86 wherein the alkyl groups are linear or branched and each group has from 1 to 30 carbon atoms.
88. (New) The process as claimed in claim 86 wherein the alkyl groups are linear or branched and each group has from 2 to 20 carbon atoms.
89. (New) The process as claimed in claim 86 wherein the alkyl groups are linear or branched and each group has from 3 to 18 carbon atoms.
90. (New) The process as claimed in claim 53 wherein the one or more benzenecarboxylic acid derivates are one or more phthalates or isophthalates selected from the group consisting of monomethyl phthalate, dimethyl phthalate, diethyl phthalate, di-n-propyl phthalate, di-n-butyl phthalate, di-tert-butyl phthalate, diisobutyl phthalate, monoglycol esters of phthalic acid, diglycol esters of phthalic acid, di-n-octyl phthalate, diisooctyl phthalate, di-2-ethylhexyl phthalate, di-n-nonyl phthalate, diisononyl phthalate, di-n-decyl phthalate, diisodecyl phthalate, di-n-

undecyl phthalate, diisoundecyl phthalate, diisododecyl phthalate, di-n-octadecyl phthalate, diisoctadecyl phthalate, di-n-eicosyl phthalate, monocyclohexyl phthalate, dicyclohexyl phthalate; alkyl isophthalates such as monomethyl isophthalate, dimethyl isophthalate, diethyl isophthalate, di-n-propyl isophthalate, di-n-butyl isophthalate, di-tert-butyl isophthalate, diisobutyl isophthalate, monoglycol esters of isophthalic acid, diglycol esters of isophthalic acid, di-n-octyl isophthalate, diisoctyl isophthalate, di-2-ethylhexyl isophthalate, di-n-nonyl isophthalate, diisononyl isophthalate, di-n-decyl isophthalate, diisodecyl isophthalate, di-n-undecyl isophthalate, di-isoundecyl isophthalate, diisododecyl isophthalate, di-n-octadecyl isophthalate, diisoctadecyl isophthalate, di-n-eicosyl isophthalate, monocyclohexyl isophthalate and dicyclohexyl isophthalate.

91. (New) The process as claimed in claim 53 wherein the one or more benzenecarboxylic acid derivates are one or more terephthalates selected from the group consisting of monomethyl terephthalate, dimethyl terephthalate, diethyl terephthalate, di-n-propyl terephthalate, di-n-butyl terephthalate, di-tert-butyl terephthalate, diisobutyl terephthalate, monoglycol esters of terephthalic acid, diglycol esters of terephthalic acid, di-n-octyl terephthalate, diisoctyl terephthalate, mono-2-ethylhexyl terephthalate, di-2-ethylhexyl terephthalate, di-n-nonyl terephthalate, diisononyl terephthalate, di-n-decyl terephthalate, di-n-undecyl terephthalate, diisodecyl terephthalate, diisoundecyl terephthalate, diisododecyl terephthalate, di-n-octadecyl terephthalate, diisoctadecyl terephthalate, di-n-eicosyl terephthalate, ditridecyl terephthalate, diisotridecyl terephthalate, monocyclohexyl terephthalate and dicyclohexyl terephthalate.
92. (New) The process as claimed in claim 53 wherein the one or more benzenecarboxylic acid derivates are one or more alkyl trimellitates selected from the group consisting of such as monomethyl trimellitate, dimethyl trimellitate, diethyl trimellitate, di-n-propyl trimellitate, di-n-butyl trimellitate, di-tert-butyl trimellitate, diisobutyl trimellitate, the monoglycol ester of trimellitic acid, diglycol esters of trimellitic acid, di-n-octyl trimellitate, diisoctyl trimellitate, di-2-ethylhexyl trimellitate, di-n-nonyl trimellitate, diisononyl trimellitate, di-n-decyl trimellitate,

diisodecyl trimellitate, di-n-undecyl trimellitate, diisoundecyl trimellitate, diisododecyl trimellitate, di-n-octadecyl trimellitate, diisoctadecyl trimellitate, di-n-eicosyl trimellitate, monocyclohexyl trimellitate, dicyclohexyl trimellitate and trimethyl trimellitate, triethyl trimellitate, tri-n-propyl trimellitate, tri-n-butyl trimellitate, tri-tert-butyl trimellitate, triisobutyl trimellitate, triglycol esters of trimellitic acid, tri-n-octyl trimellitate, triisoctyl trimellitate, tri-2-ethylhexyl trimellitate, tri-n-nonyl trimellitate, tri-isonyl trimellitate, tri-n-decyl trimellitate, triisododecyl trimellitate, tri-n-undecyl trimellitate, tri-isoundecyl trimellitate, triisododecyl trimellitate, tri-n-octadecyl trimellitate, triisoctadecyl trimellitate, tri-n-eicosyl trimellitate and tricyclohexyl trimellitate.

93. (New) The process as claimed in claim 53 wherein the one or more benzenecarboxylic acid derivates are one or more alkyl trimesates selected from the group consisting of monomethyl trimesate, dimethyl trimesate, diethyl trimesate, di-n-propyl trimesate, di-n-butyl trimesate, di-tert-butyl trimesate, diisobutyl trimesate, monoglycol esters of trimesic acid, diglycol esters of trimesic acid, di-n-octyl trimesate, diisoctyl trimesate, di-2-ethylhexyl trimesate, di-n-nonyl trimesate, diisononyl trimesate, di-n-decyl trimesate, diisodecyl trimesate, di-n-undecyl trimesate, di-isoundecyl trimesate, diisododecyl trimesate, di-n-octadecyl trimesate, diisoctadecyl trimesate, di-n-eicosyl trimesate, monocyclohexyl trimesate, dicyclohexyl trimesate, and also trimethyl trimesate, triethyl trimesate, tri-n-propyl trimesate, tri-n-butyl trimesate, tri-tert-butyl trimesate, triisobutyl trimesate, triglycol esters of trimesic acid, tri-n-octyl trimesate, triisoctyl trimesate, tri-2-ethylhexyl trimesate, tri-n-nonyl trimesate, tri-isonyl trimesate, tri-n-decyl trimesate, triisododecyl trimesate, tri-n-undecyl trimesate, tri-isoundecyl trimesate, triisododecyl trimesate, tri-n-octadecyl trimesate, triisoctadecyl trimesate, tri-n-eicosyl trimesate and tricyclohexyl trimesate.
94. (New) The process as claimed in claim 53 wherein the one or more benzenecarboxylic acid derivates are one or more alkyl hemimellitates selected from the group consisting of monomethyl hemimellitate, dimethyl hemimellitate, diethyl hemimellitate, di-n-propyl hemimellitate, di-n-butyl hemimellitate, di-tert-butyl

hemimellitate, diisobutyl hemimellitate, monoglycol esters of hemimellitic acid, diglycol esters of hemimellitic acid, di-n-octyl hemimellitate, diisoctyl hemimellitate, di-2-ethylhexyl hemimellitate, di-n-nonyl hemimellitate, diisononyl hemimellitate, di-n-decyl hemimellitate, diisodecyl hemimellitate, di-n-undecyl hemimellitate, di-isoundecyl hemimellitate, diisododecyl hemimellitate, di-n-octadecyl hemimellitate, diisooctadecyl hemimellitate, di-n-eicosyl hemimellitate, monocyclohexyl hemimellitate, dicyclohexyl hemimellitate, and also trimethyl hemimellitate, triethyl hemimellitate, tri-n-propyl hemimellitate, tri-n-butyl hemimellitate, tri-tert-butyl hemimellitate, triisobutyl hemimellitate, triglycol esters of hemimellitic acid, tri-n-octyl hemimellitate, triisoctyl hemimellitate, tri-2-ethylhexyl hemimellitate, tri-n-nonyl hemimellitate, tri-isonyl hemimellitate, tri-n-decyl hemimellitate, triisodecyl hemimellitate, tri-n-undecyl hemimellitate, tri-isoundecyl hemimellitate, triisododecyl hemimellitate, tri-n-octadecyl hemimellitate, triisooctadecyl hemimellitate, tri-n-eicosyl hemimellitate and tricyclohexyl hemimellitate.

95. (New) The process as claimed in claim 53 wherein the one or more benzenecarboxylic acid derivates are one or more alkyl pyromellitates selected from the group consisting of monomethyl pyromellitate, dimethyl pyromellitate, diethyl pyromellitate, di-n-propyl pyromellitate, di-n-butyl pyromellitate, di-tert-butyl pyromellitate, diisobutyl pyromellitate, monoglycol esters of pyromellitic acid, diglycol esters of pyromellitic acid, di-n-octyl pyromellitate, diisoctyl pyromellitate, di-2-ethylhexyl pyromellitate, di-n-nonyl pyromellitate, diisononyl pyromellitate, di-n-decyl pyromellitate, diisodecyl pyromellitate, di-n-undecyl pyromellitate, di-isoundecyl pyromellitate, diisododecyl pyromellitate, di-n-octadecyl pyromellitate, diisooctadecyl pyromellitate, di-n-eicosyl pyromellitate, monocyclohexyl pyromellitate, trimethyl pyromellitate, triethyl pyromellitate, tri-n-propyl pyromellitate, tri-n-butyl pyromellitate, tri-tert-butyl pyromellitate, triisobutyl pyromellitate, triglycol esters of pyromellitic acid, tri-n-octyl pyromellitate, triisoctyl pyromellitate, tri-2-ethylhexyl pyromellitate, tri-n-nonyl pyromellitate, tri-isonyl pyromellitate, triisodecyl pyromellitate, tri-n-decyl pyromellitate, tri-n-undecyl pyromellitate, tri-isoundecyl pyromellitate, triisododecyl pyromellitate, tri-n-

octadecyl pyromellitate, triisooctadecyl pyromellitate, tri-n-eicosyl pyromellitate, tricyclohexyl pyromellitate, and also tetramethyl pyromellitate, tetraethyl pyromellitate, tetra-n-propyl pyromellitate, tetra-n-butyl pyromellitate, tetra-tert-butyl pyromellitate, tetraisobutyl pyromellitate, tetraglycol esters of pyromellitic acid, tetra-n-octyl pyromellitate, tetraisoctyl pyromellitate, tetra-2-ethylhexyl pyromellitate, tetra-n-nonyl pyromellitate, tetraisododecyl pyromellitate, tetra-n-undecyl pyromellitate, tetraisododecyl pyromellitate, tetra-n-octadecyl pyromellitate, tetraisoctadecyl pyromellitate, tetra-n-eicosyl pyromellitate and tetracyclohexyl pyromellitate.

96. (New) The process as claimed in claim 53 wherein the one or more benzenecarboxylic acid derivates are one or more derivates selected from the group consisting of alkyl terephthalates, alkyl phthalates, alkyl isophthalates, dialkyl trimellitates, trialkyl trimellitates, dialkyl trimesates, trialkyl trimesates, dialkyl hemimellitates, trialkyl hemimellitates, dialkyl pyromellitates, trialkyl pyromellitates and tetraalkyl pyromellitates, in which one or more of the alkyl groups contain 5, 6 or 7 carbon atoms.
97. (New) A process as claimed in claim 96 wherein the one or more alkyl groups containing 5, 6 or 7 carbon atoms are selected from the group consisting of n-pentyl, 1-methylbutyl terephthalate, 2-methylbutyl, 3-methylbutyl, 2,2-dimethylpropyl, 1,1-dimethylpropyl, n-hexyl, 1-methylpentyl, 2-methylpentyl, 3-methylpentyl, 4-methylpentyl, 1,1-dimethylbutyl, 2,2-dimethylbutyl, 3,3-dimethylbutyl, 1,2-dimethylbutyl, 1,3-dimethylbutyl, 2,3-dimethylbutyl, 1-methyl-2-ethylpropyl, 1-ethyl-2-methylpropyl, 1-ethylbutyl, 2-ethylbutyl, n-heptyl, 1-methylhexyl, 2-methylhexyl, 3-methylhexyl, 4-methylhexyl, 5-methylhexyl, 1,1-dimethylpentyl, 2,2-dimethylpentyl, 3,3-dimethylpentyl, 4,4-dimethylpentyl, 1-ethylpentyl, 2-ethylpentyl, 3-ethylpentyl, 1,1,2-trimethylbutyl, 1,1,3-trimethylbutyl, 1,2,2-trimethylbutyl, 2,2,3-trimethylbutyl, 1,3,3-trimethylbutyl, 2,3,3-trimethylbutyl, 1,2,3-trimethylbutyl, 1-ethyl-2-methylbutyl, 1-ethyl-3-methylbutyl, 2-ethyl-3-methylbutyl and 1-methyl-2-ethylbutyl.

98. (New) The process as claimed in claim 53 wherein the one or more benzenecarboxylic acid derivates are one or more derivitates selected from the group consisting of alkyl terephthalates, alkyl phthalates, alkyl isophthalates, dialkyl trimellitates, trialkyl trimellitates, dialkyl trimesates, trialkyl trimesates, dialkyl hemimellitates, trialkyl hemimellitates, dialkyl pyromellitates, trialkyl ;yromellitates and tetraalkyl pyromellitates, in which at least one of the alkyl groups are isononyl and derived from either n-butene or isobutene.
99. (New) The process as claimed in claim 53, wherein the hydrogenation is carried out in the presence of a solvent or diluent.
100. (New) The process as claimed in claim 53, wherein the hydrogenation is carried out continuously.
101. (New) The process as claimed in claim 53 wherein the hydrogenation process is carried out at a pressure of 25 to 70 bar.
102. (New) The process as claimed in claim 53 wherein the hydrogenation process is carried out at a pressure of 20 to 300 bar.
103. (New) A cyclohexanopolycarboxylic acid or derivative thereof obtained from a hydrogenation process as claimed in claim 53.
104. (New) A cyclohexanopolycarboxylic acid ester obtained from a hydrogenation process as claimed in claim 53.
105. (New) A cyclohexanopolycarboxylic acid anhydride obtained from a hydrogenation process as claimed in claim 53.
106. (New) A composition comprising at least one plastic and one or more cyclohexanopolycarboxylic acids or derivatives thereof obtained from a hydrogenation process as claimed in claim 53.